



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2022 South Dakota Spring Wheat Variety Trial Results Miller

Jonathan Kleinjan | SDSU Extension Agronomist
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator: Lee Lichty
Location: 44.457733°, -98.761561°
Soil Type: Davis silt loam, fans, nearly level
Previous crop: soybeans
Tillage: no-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 189-82-58 broadcast preplant: 1 gal/acre SRN25 at Feekes 10.5.1 (early flowering)
Herbicide:
-Burndown: NR
-Post: 16 oz/acre WideMatch
Fungicide: 7 oz/acre Aquila (with herbicide); 8.2 oz Prosaro SC applied at Feekes 10.5.1
Date seeded: 4/19/2022
Date harvested: 8/9/2022



2022 South Dakota Spring Wheat Variety Trial Results Miller

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Miller, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bolded and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2020 (bu/a)#	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Buster	27.8	1.0	58.4	13.7	82.8	22.8	58.6	40.7	54.7
LCS Trigger	27.3	1.0	58.9	14.4	80.8	24.2	53.9	39.0	52.9
CP3530	32.5	1.8	59.5	16.1	79.0	24.7	54.4	39.5	52.7
Driver	30.0	1.0	60.1	15.3	75.0	28.0	52.3	40.2	51.8
SY Valda	27.5	1.3	59.4	15.1	72.5	26.6	55.4	41.0	51.5
LCS Cannon	28.0	1.3	60.8	14.9	72.5	21.7	60.0	40.8	51.4
Ascend-SD	30.5	1.0	59.8	15.4	72.1	21.5	56.6	39.1	50.1
MN-Rothsay	26.0	1.0	58.6	15.7	74.1	22.2	49.0	35.6	48.4
LCS Rebel	32.0	2.0	60.2	16.1	69.5	22.2	52.9	37.5	48.2
AP Murdock	27.8	1.3	58.8	15.2	72.0	18.6	52.9	35.8	47.8
SY Ingmar	26.8	1.0	59.0	16.1	70.1	20.5	48.9	34.7	46.5
WB9719	27.3	1.0	59.9	15.6	70.9	17.4	50.9	34.1	46.4
Prevail	29.8	1.5	59.3	15.2	66.2	17.4	55.0	36.2	46.2
Surpass	30.0	2.0	58.4	15.5	63.8	20.7	53.8	37.3	46.1
Lang-MN	30.5	1.0	59.8	15.6	63.6	19.7	53.5	36.6	45.6
WB9606	28.0	1.0	58.4	14.9	63.4	22.4	50.6	36.5	45.5
CP3099A	28.5	1.0	52.4	14.7	70.0	22.8	42.0	32.4	44.9
SY Rustler	28.8	1.8	58.0	14.7	68.7	12.9	50.9	31.9	44.2
MS Ranchero	29.8	1.0	58.2	15.8	64.3	21.4	40.7	31.0	42.1
ND Froberg	30.0	1.3	58.3	15.6	61.1	18.9	45.4	32.1	41.8
MS Cobra	28.0	1.0	58.8	15.5	-	21.5	53.3	37.4	-
AP Revolution	25.8	1.3	59.0	15.3	-	21.0	52.9	36.9	-
AP Gunsmoke CL2	26.8	1.8	59.0	16.0	-	21.0	52.5	36.8	-
LCS Ascent	29.3	1.5	59.4	14.5	-	-	54.6	-	-
CAG Reckless	30.0	1.0	60.1	15.6	-	-	54.4	-	-
LCS Hammer AX	27.8	1.5	58.6	15.8	-	-	54.4	-	-
CAG Justify	27.8	1.0	57.6	14.8	-	-	53.8	-	-
MS Charger	28.3	1.0	56.9	14.1	-	-	53.6	-	-
LCS Dual	28.3	1.5	58.0	15.5	-	-	50.1	-	-
Trial Average#	28.4	1.3	58.7	15.3	68.4	21.2	52.6	36.7	47.9
LSD (0.05)†	-	-	0.8	0.5	3.3	3.2	2.8	-	-
C.V. %‡	-	-	-	-	3.4	10.7	3.9	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Trial averages may include values from experimental lines that are not reported, yield is reported @13%M, protein is @12%M.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.